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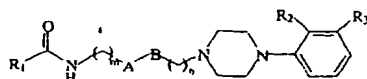
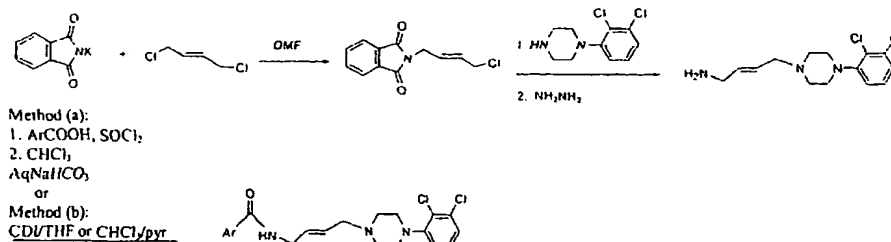
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(54) Title: **STRUCTURALLY RIGID DOPAMINE D3 RECEPTOR SELECTIVE LIGANDS AND PROCESS FOR MAKING THEM**

Synthesis of Rigid D₃ Ligands



(I)

(57) Abstract: A family of structurally rigid dopamine D₃ receptor selective ligands is described. The family of structurally rigid dopamine D₃ receptor selective ligands has the formula wherein A is cis or trans -CH=CH-, -C≡C-, or cyclohexyl. B is cis or trans -CH=CH- or absent. R₁ represents an optionally substituted phenyl group, wherein said substituents are selected from the group consisting of: hydrogen, halogen, amino, nitro, hydroxyl, alkoxy, alkyl, acyl and pyridyl, and said substitution may occur at any of the ortho, meta, or para positions, or R₁ represents a heteroaromatic ring. A preferred heteroaromatic ring is indole, quinoxaline, pyridyl, pyrimidyl, or imidazole. R₂ and R₃ may be independently hydrogen or a halogen, or R₂ alone may be C₁, C₂, or C₃ alkoxy, and m is 1 or 2, and n is 0, 1, or 2.

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